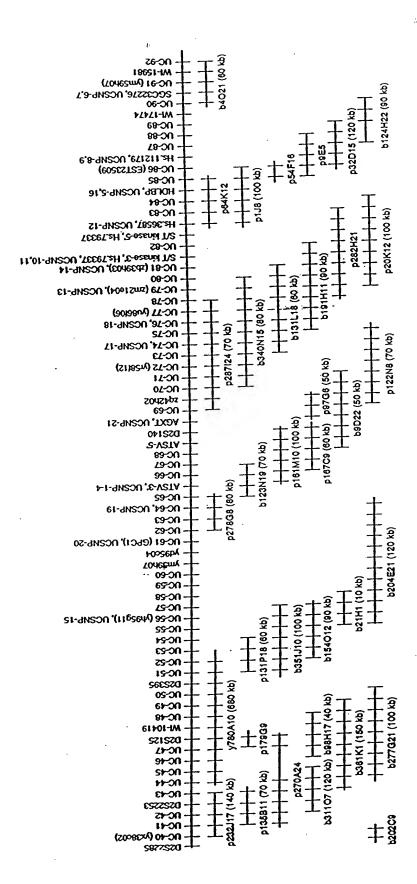
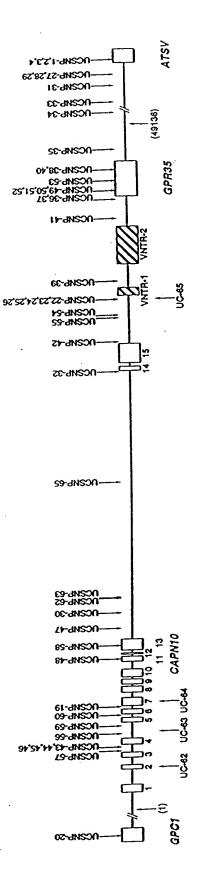


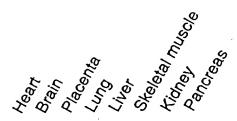
FIG. 1



Arman



FIG



kb 9.5 7.5

4.4

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1.35

	Domain I
	HESCYKPYEDONYSALROOCRRKVLFEDPLFPATDOSLYY-KGTPGPAVRIKRPKGICEDPRLFVDG 67
CAPRO	##SCVRFTEDQNTSALRQUCKRKQCFRTCGRFCDFTFLPENDSLFFRRLLFGKVVMKRPQDISDDPHLIVGN 67
CAPN3	
CAPNS	RPYLYRAPGPQAHPVP
CAPNI	KEELITPVYCTGVSAQVQKQRARELGLG
CAPN2	
CAPHE	
CAPH10	
	. MONITORE DELINING TWO CHENCENE AND
CAPITS	isskoliogquandevaacsslasreslogrvipameqeboprkaqayogifhfhfwrlg—kvovviderlptvnnqliychsnsrnefwcalverayakloctqalbocntadalv 186 Isrboliogrughtahisafsclavqeshmtaiphbedgehoprhpekragifherfhhffcomfevvidollptingolvfsfstshrefhallekayaklloctfalboltitoim 187 Isrboliogrughtahisafsclavqeshmtaiphbedgehoprhpekragifherfhhffcomfevvidollptingolvfsshrnefhkallekathklubstplakognitehhe 219
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LCAPRT)	ATRIDICQCELGDCMLAAIASLITIAQKALARVI?QDQSFCPGTKGIFHFQFMQHSEBULDVVIDURLYF HOLGYLVYKSAECHEFWSALLEKATAKUNGSTEALSGGSTSBGFE 215 ATRIDICQCALGDCMLAAIASLITIADTILHRVYP
CAPITI	Atridicqcalgdcmlaaiasltindtilirvvp
	Atridicocalgocklaalaslitneeilarvy?lagsfordtagifhfofkoltockevyviddriltaella vasacet kallekatakurstelavogstibdfe 205 Atridirogigocklaalaslitnekiltrvi?
LCAPATIO	Atridirgoglodchilaliaslilhekllyrvirrdosfordtagtfhrogforveviturulytargolosgorednyhirilekvyakvhosyehikagovadalv Pregovrogligdchficacaaloksrrildovippgopskadoetrosftorinoforkvevituoripciagricfsrcorednyhirilekvyakvhosyehikagovadalv 175
•	Detggvsepidltecupandetkrnglferhlavhsrgglisasikav
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LCAPN2	DETOGTIEMTELEK
CAPNS	DFTCGISEFYDLKKPRACARELGEFEAFIVSDL 245
LCAPN10	DETOGIZENTELKK
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	GGCINGKOTFFQRPQYIFEVKKPDEVLICIQQRPKRSTRRDGKGENLAIGFDIYKVEERQYRBISL-QKKAASSIYINSRSVFLRTDQPEGRYVIIFT 412
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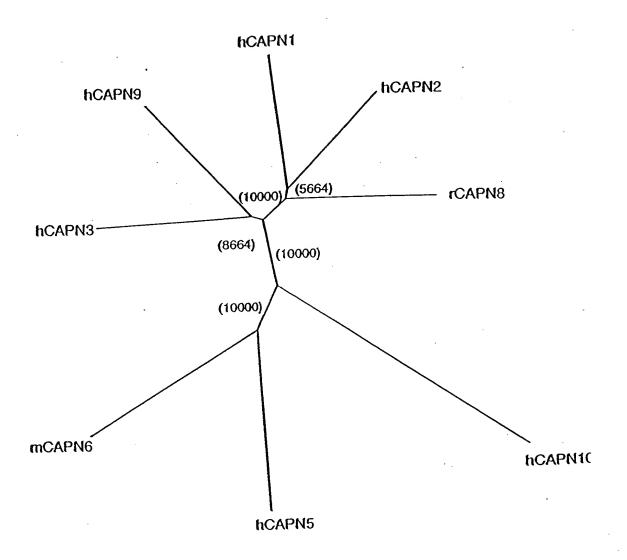
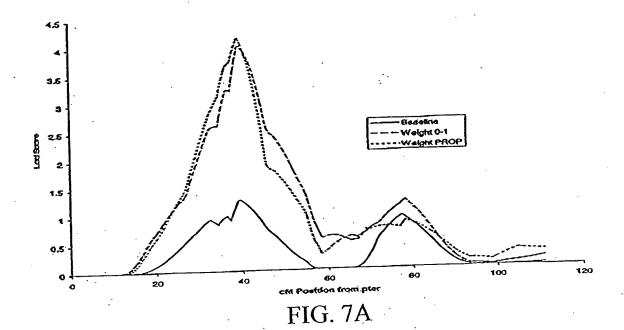


FIG. 6



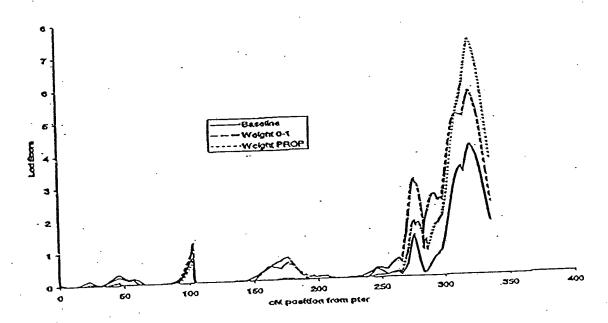
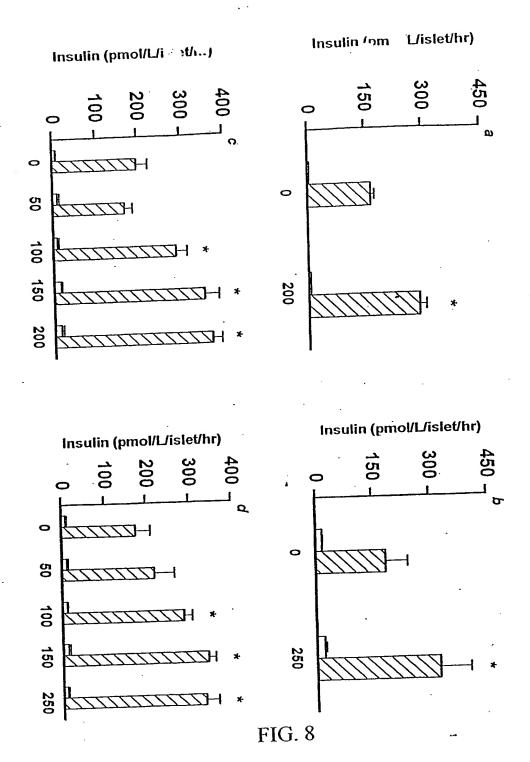
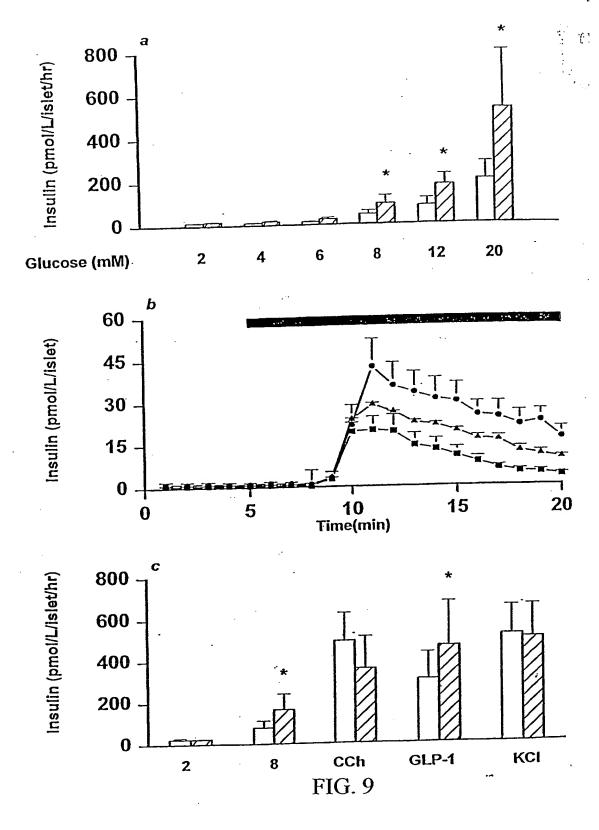
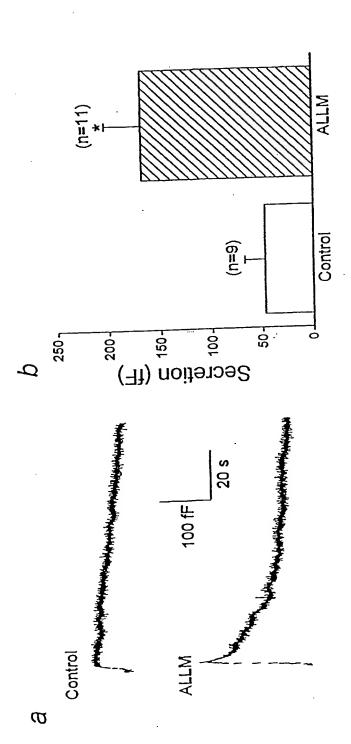
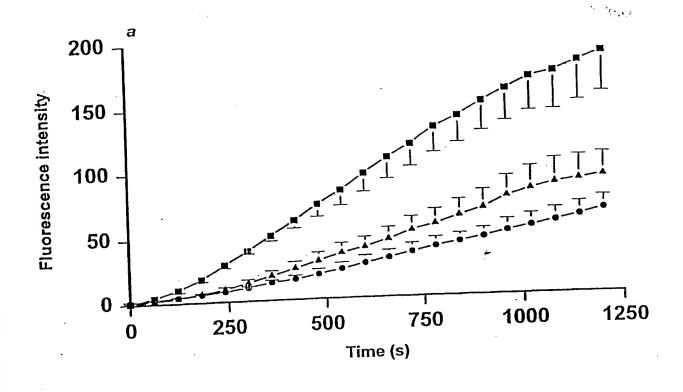


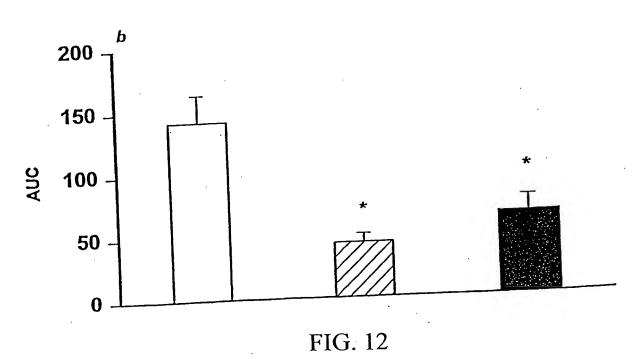
FIG. 7B











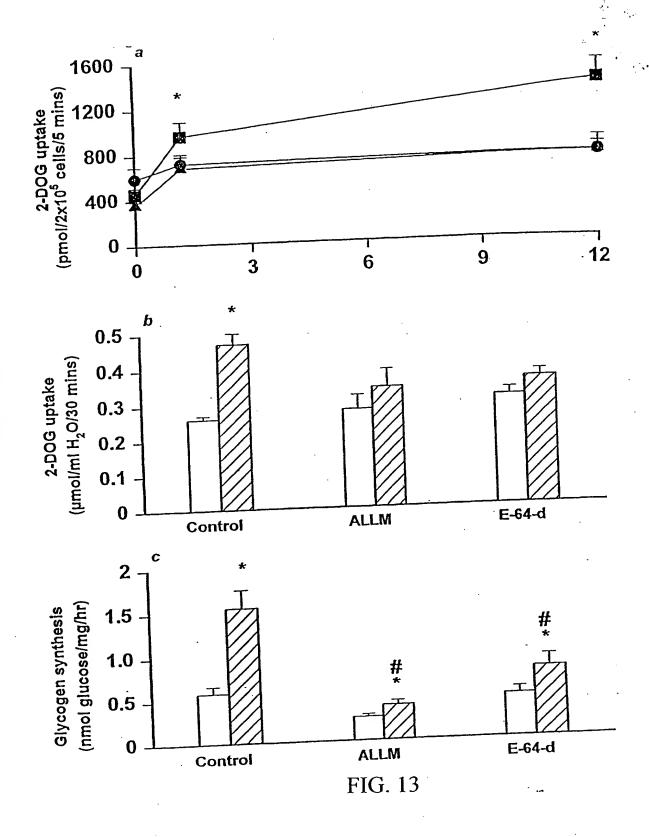


Fig14 Effect of 48 hours exposure of islets to calpain inhibitors on insulin secretion

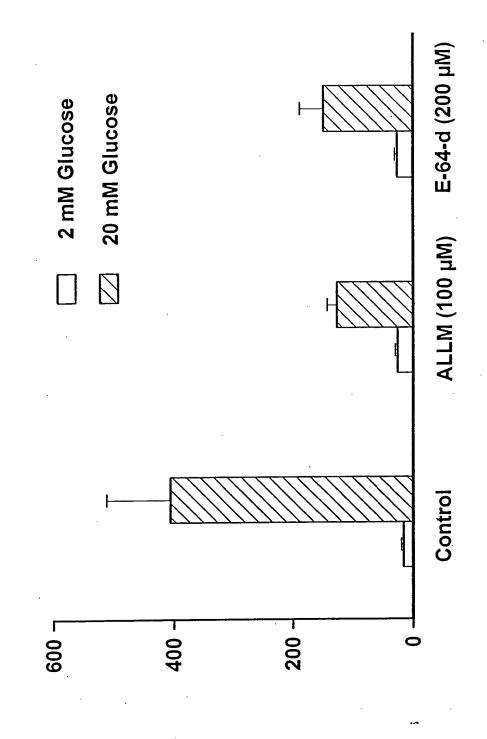


Fig 15 Insulin content in 48 hour cultured islets (n=4)

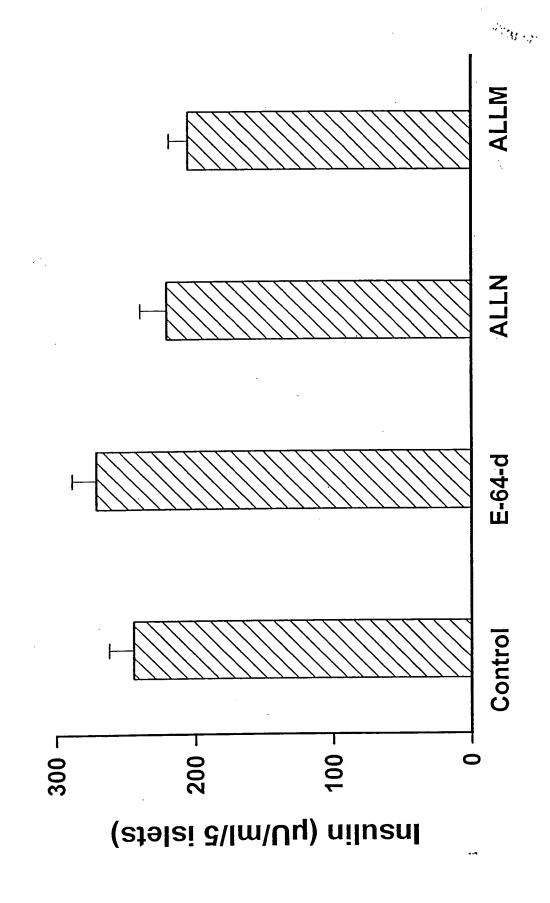
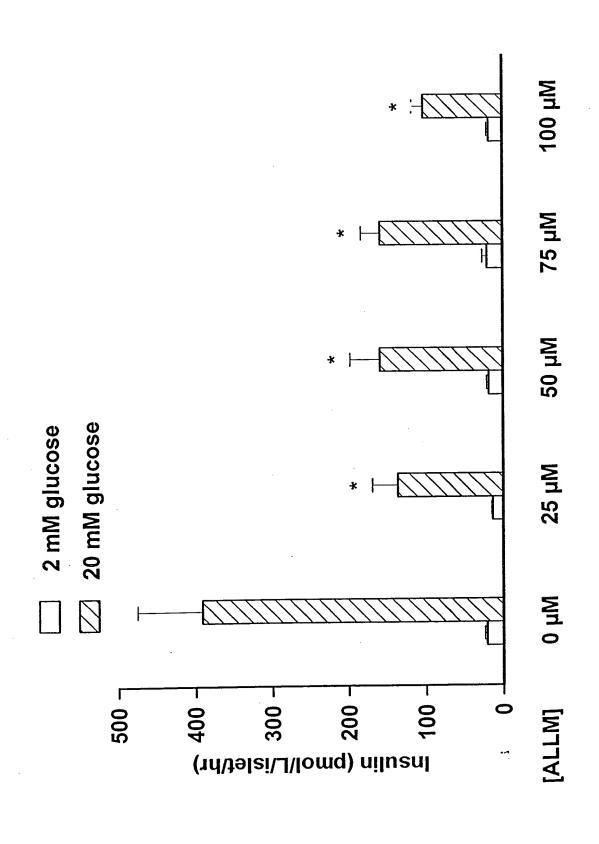
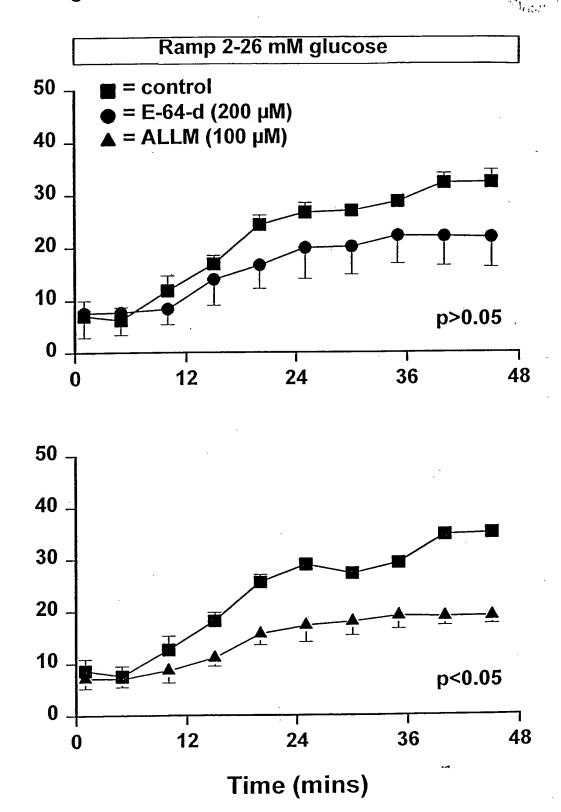


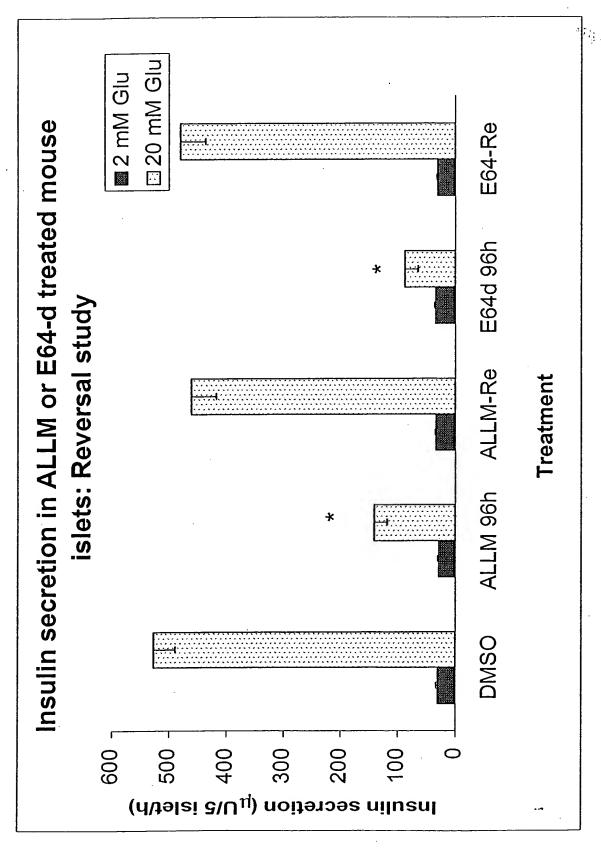
Fig16 ALLM dose response in 48 hour treated islets



Insulin (µU/ml/50 islets)

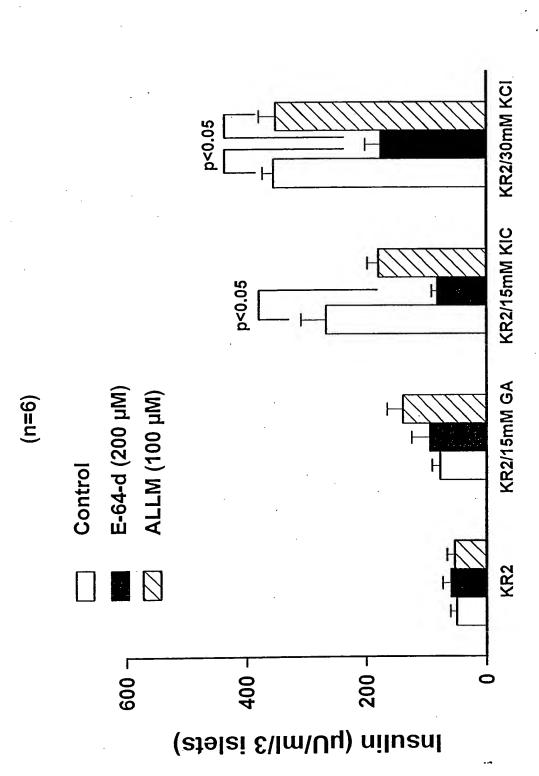
Fig 17. Perifusion of 48 hour cultured islets (n=4)

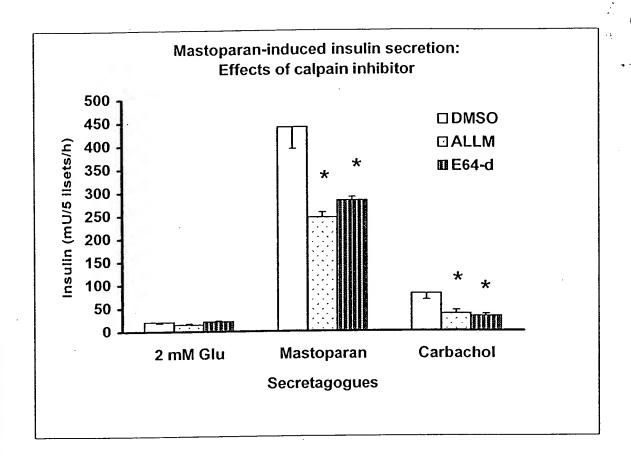




F1a. 18

Fig 19, Insulin secretion by islets following exposure to calpain inhibitors for 48 hrs





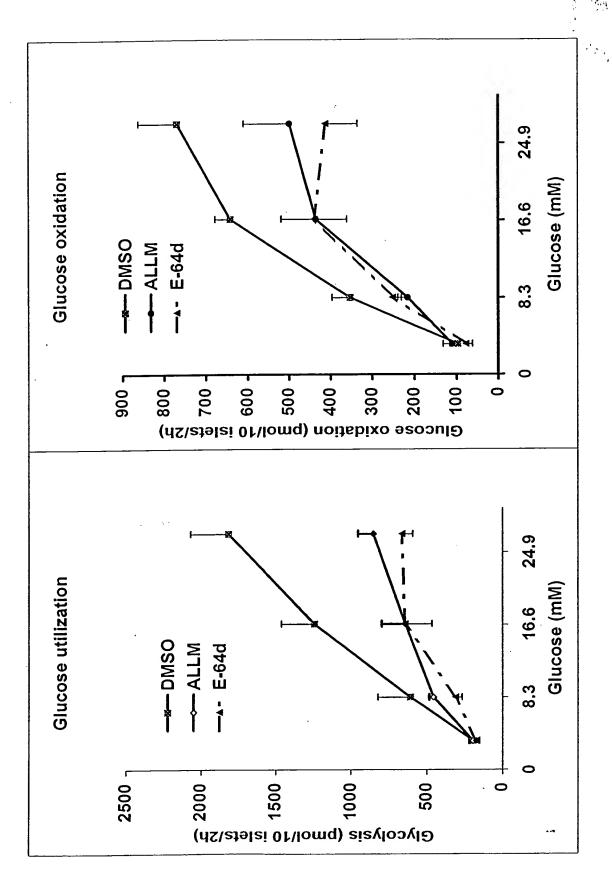
F14.20

Fig21 [C 2+], responses to gluce 3, KIC and KCI Control (n=5) E-64-d (n=2) **ALLM (n=5) 500** . 400 300 200 100 0 30 mM KCI 14 mM Glucose 15 mM KIC Time to 1/2 max response (s) **500** 400 **300** . **200** . 100 0

15 mM KIC

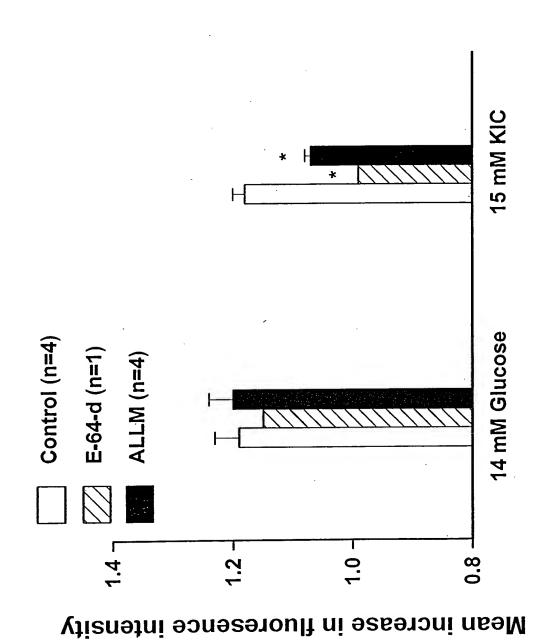
30 mM KCI

14 mM Glucose



F16.22

Fig 23. NAD(P)H responses to glucose and KiC



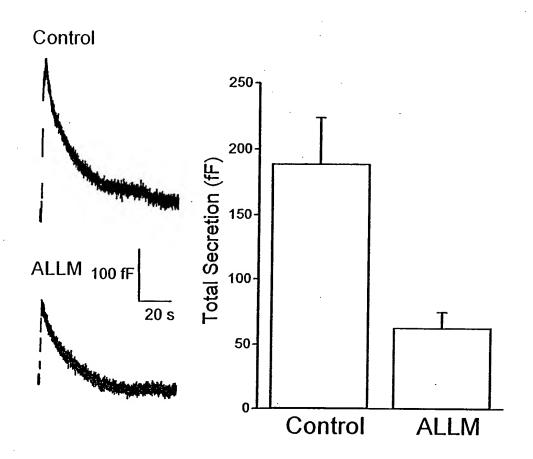
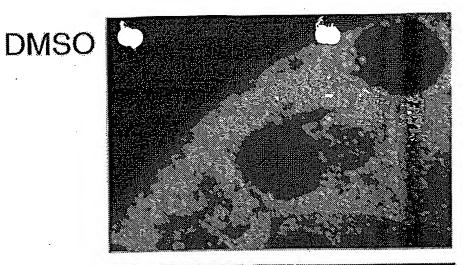
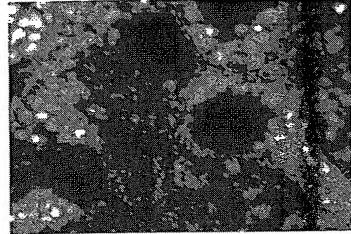


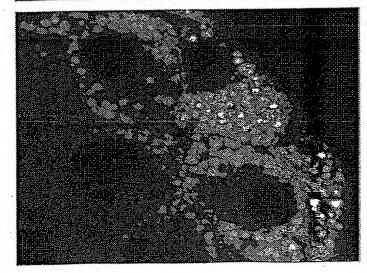
Fig. 24. Measurement of membrane capacitance in isolated β -cells



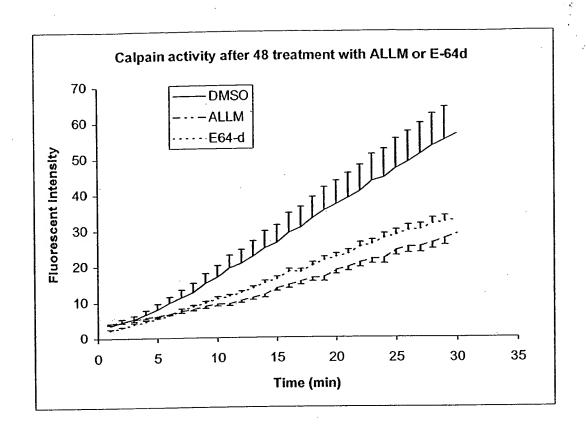
E64d



ALLM



F14.25



F16.26